

# INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB2004/051840

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC 7 H04L9/00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 089 487 A (ERICSSON INC) 4 April 2001 (2001-04-04) abstract paragraph '0013! - paragraph '0016! paragraph '0032! - paragraph '0054!; figures 6-12 ----- US 4 853 962 A (BROCKMAN ROBERT T) 1 August 1989 (1989-08-01) abstract column 2, line 66 - column 4, line 33; figures 3,4,7 -----	1-10, 12-34
X		1,9,21, 25,29, 30,34

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the International filing date
- \*L\* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the International filing date but later than the priority date claimed

\*T\* later document published after the International filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

\*Y\* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

\*&\* document member of the same patent family

Date of the actual completion of the International search

Date of mailing of the International search report

1 December 2004

16/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Dujardin, C

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/051840

Patent document cited in search report	Publication date	Patent family member(s)		Publication date
EP 1089487	A 04-04-2001	US 5825889 A		20-10-1998
		EP 1089489 A2		04-04-2001
		EP 1089487 A2		04-04-2001
		AU 4417397 A		11-05-1998
		BR 9712309 A		31-08-1999
		CA 2268656 A1		23-04-1998
		CN 1437330 A		20-08-2003
		DE 69717489 D1		09-01-2003
		DE 69717489 T2		10-07-2003
		EP 0943195 A1		22-09-1999
		ES 2187819 T3		16-06-2003
		JP 2001502495 T		20-02-2001
		TW 384590 B		11-03-2000
		WO 9817028 A1		23-04-1998
US 4853962	A 01-08-1989	NONE		